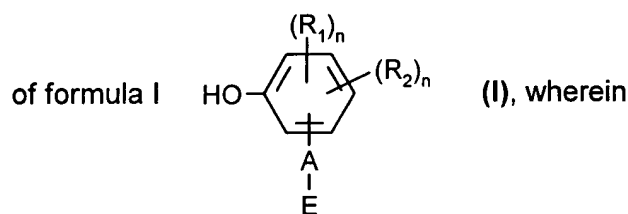


## IN THE CLAIMS

Kindly amend the claims as follows.

1. **(currently amended):** A process for stabilising and at the same time phase compatibilising ~~plastics~~ or plastic compositions comprising at least two different polymers by incorporating polymeric compounds obtainable by reacting a compound selected from the group consisting of the sterically hindered phenols, ~~sterically hindered amines, lactones, sulfides, phosphites, benzotriazoles, benzophenones and 2-(2-hydroxyphenyl)-1,3,5-triazines,~~ which compounds contain at least one reactive group, with a compatibiliser compatibiliser compound which is a polymer containing acid groups, acid anhydride groups, ester groups, epoxy groups or alcohol groups or which compatibiliser compound is a copolymer or terpolymer of ethylene, propylene, vinyl acetate or styrene with acrylic acid.

2. **(original):** A process according to claim 1, wherein the sterically hindered phenols are compounds



$R_1$  and  $R_2$  are each independently of the other hydrogen,  $C_1$ - $C_{25}$ alkyl, phenyl- $C_1$ - $C_3$ alkyl which is unsubstituted or substituted once or several times at the aromatic ring by OH or/and  $C_1$ - $C_4$ alkyl, unsubstituted or  $C_1$ - $C_4$ alkyl-substituted  $C_5$ - $C_{12}$ cycloalkyl, or phenyl;

$n$  is 1, 2 or 3;

$E$  is OH, SH,  $NHR_3$ ,  $SO_3H$ ,  $COOH$ ,  $-CH=CH_2$ ,  $-(CH_2)_m-CH-CH_2$  or  $-P(=O)(OH)-R_4$  ;

$m$  is 0 or 1;

$R_3$  is hydrogen or  $C_1$ - $C_9$ alkyl;

$R_4$  is  $C_1$ - $C_{12}$ alkyl, or phenyl which is unsubstituted or substituted by one or several  $C_1$ - $C_4$ alkyl, halogen or/and  $C_1$ - $C_{18}$ alkoxy;

A if E is OH, SH or  $-\text{CH}=\text{CH}_2$ , is  $-\text{C}_x\text{H}_{2x}-$ ,  $-\text{CH}_2-\text{S}-\text{CH}_2\text{CH}_2-$ ,  
 $-\text{C}_q\text{H}_{2q}-(\text{CO})-\text{O}-\text{C}_p\text{H}_{2p}-$ ,  $-\text{C}_q\text{H}_{2q}-(\text{CO})-\text{NH}-\text{C}_p\text{H}_{2p}-$  or  $-\text{C}_q\text{H}_{2q}-(\text{CO})-\text{O}-\text{C}_p\text{H}_{2p}-\text{S}-\text{C}_q\text{H}_{2q}-$ ;

x is a number from 0 to 8;

p is a number from 2 to 8;

q is a number from 0 to 3;

$\text{R}_1$  and n are as defined above; or

A if E is  $-\text{NHR}_3$ , is  $-\text{C}_x\text{H}_{2x}-$  or  $-\text{C}_q\text{H}_{2q}-(\text{CO})-\text{NH}-\text{C}_p\text{H}_{2p}-$ , wherein x, p and q have the meanings cited above; or

A if E is  $\text{COOH}$  or  $\text{SO}_3\text{H}$ , is  $-\text{C}_x\text{H}_{2x}-$ ,  $-\text{CH}_2-\text{S}-\text{CH}_2-$  or  $-\text{CH}_2-\text{S}-\text{CH}_2\text{CH}_2-$ , wherein x has the meaning cited above; or

A if E is  $-(\text{CH}_2)_m-\text{CH}-\text{CH}_2$ , is a direct bond,  $-\text{C}_q\text{H}_{2q}-(\text{CO})_m-\text{O}-\text{CH}_2-$  or  $-\text{C}_x\text{H}_{2x}-\text{S}-\text{CH}_2-$ , wherein q, m, x,  $\text{R}_1$  and  $\text{R}_2$  are as defined above;

A if E is  $-\text{P}(=\text{O})(\text{OH})-\text{R}_4$ , is  $-\text{CH}_2-$ .

3-8. (cancelled).

9. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a polymer with acrylic acid (AA) function, glycidyl methacrylate (GMA) function, methacrylic acid (MAA) function, maleic anhydride (MAH) function or vinyl alcohol (VA) function.

10. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a copolymer consisting of which is polyethyleneethylene/acrylic acid (PE-AA), polyethyleneethylene/glycidyl methacrylate (PE-GMA), polyethyleneethylene/methacrylic acid (PE-MAA) or polyethyleneethylene/maleic anhydride (PE-MAH) or a terpolymer of polyethyleneethylene and vinyl acetate with acrylic acid or a terpolymer of polyethyleneethylene and acrylates with acrylic acid.

11. (currently amended): A process according to claim 81, wherein the compatibiliser compound is a grafted polyethylene or polypropylene copolymer selected from the group consisting of maleic

anhydride grafted to polyethylene vinyl acetate (MAH-g-PE-vinyl acetate), maleic anhydride grafted to low density polyethylene (MAH-g-LDPE), maleic anhydride grafted to high density polyethylene (MAH-g-HDPE), maleic anhydride grafted to linear low density polyethylene (MAH-g-LLDPE), acrylic acid grafted to polypropylene (AA-g-PP), glycidyl methacrylate grafted to polypropylene (GMA-g-PP), maleic anhydride grafted to polypropylene (MAH-g-PP), maleic anhydride grafted to ethylene/propylene terpolymer (MAH-g-EPDM), maleic anhydride grafted to ethylene/propylene rubber (MAH-g-EPM) and maleic anhydride grafted to polyethylene/polypropylene copolymer (MAH-g-PE/PP).

B<sup>2</sup>  
12. **(currently amended)**: A process according to claim 8<sup>1</sup>, wherein the compatibiliser compound is a grafted styrene co- or terpolymer selected from the group consisting of styrene/acrylonitrile grafted with maleic anhydride (SAN-g-MAH), styrene/maleic anhydride/methyl methacrylate, styrene/butadiene/styrene block copolymer grafted with maleic anhydride (SBS-g-MAH), styrene/ethylene/propylene/styrene block copolymer grafted with maleic anhydride (SEPS-g-MAH), styrene/ethylene/butadiene/styrene block copolymer grafted with maleic anhydride (SEPS-g-MAH) and acrylic acid/polyethylene/polystyrene terpolymer (AA-PE-PS-terpolymer).

13. **(currently amended)**: A process according to claim 8<sup>1</sup>, wherein the compatibiliser compound is a vinyl alcohol copolymer.

14. **(cancelled)**.

15. **(original)**: A process according to claim 1, wherein the polymers to be stabilised are recycled material.

16-17. **(cancelled)**.

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